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TITLE: Method for regulating drying processes

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ABSTRACT:

CHG DATE=19990617 STATUS=O> A method for regulating and controlling drying processes is described, in which a water-containing finely divided solid is brought into contact with a heated drying gas in co-current flow. The temperature, the relative humidity and the quantity of the drying gas before heating, as well as the specific humidity of the solid to be dried and the pressure in the drying zone are measured, the temperature and relative humidity of the drying gas as well as the required specific humidity of the dried solid are specified, from these values the quantity of the dried solid and the temperature of the drying gas on entering the drying zone are calculated, and, using the calculated values, the supply of moist goods and energy to the drying zone is controlled. The energy consumption required per kilogram of evaporated water is also calculated and optimised by changing the specified values. The method results in uniform product quality and favourable energy consumption in spite of fluctuating operating parameters.